

WAVELENGTH DIVISION MULTIPLEXING AND DE-MULTIPLEXING SYSTEM

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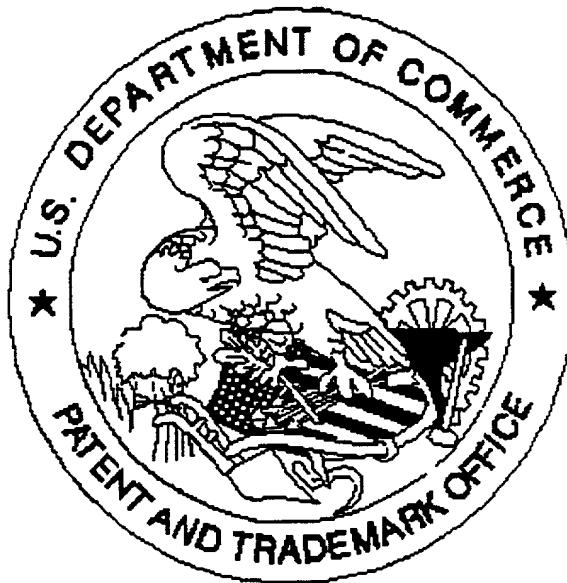
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1	fiber Bragg grating	240	light beam
2	grating region	242	strayed portions
3	interlayer	244	interface
4	laser beam	246	interface
5	reflected beam	248	reflected portion
6	passed beam	250	passed portion
100	Bragg grating	302	substrate
102	laser beam	304	grating region
104	substrate	306	mask
106	reflective layer	308	grating pattern
108	grating region	310	interlayer array
110	interlayer		
112	first transmissive material	400	process
114	second transmissive material	402-412	step
116	over-fill layer	422-462	sub-step
118	reflected beam		
120	passed beam	500	linear grating
202	substrate	502	background material
204	photoresist layer	504	interlayer material
204a	unexposed region	506	thickness
204b	exposed region	508	separation
206	photomask	510	light beam
208	pre-designated pattern	512	reflected beam
212	light	514	passed beam
214	transmissive layer	600	planar grating
216	air gap	602	background
218	photoresist layer	604	cells
218a	unexposed region	606	XYZ-axes icon
218b	exposed regions	608	thickness
220	photomask	610	separation
222	grating pattern	612	thickness
224	light	614	separation
226	grating region	616	light beam
228	over-fill layer	618	diffracted beam
230	interlayer array	620	passed beam
232	transmissive layer		

700	cubical grating	1006	WDM device
702	background	1008	light beam
704	cells	1010	light target
706	XYZ-axes icon	1100	de-multiplexing system
708	light beam	1102	light source
710	first diffracted beam	1104	light beam
712	second diffracted beam	1106	WDM device
714	passed beam	1108	light beams
800	generic grating	1110	light targets
802	background	1200	multiplexing device
804	cell	1202	first planar grating
806	thickness	1204	second planar grating
808	light beam	1206	third planar grating
810	first surface	1208	first input beam
812	first reflected portion	1210	second input beam
814	first refracted portion	1212	third input beam
816	second surface	1214	fourth input beam
818	second reflected portion	1216	first output beam
820	transmitted portion	1218	second output beam
822	second refracted portion	1220	third output beam
826	vertical separation	1300	multiplexing device
828	horizontal separation	1302	first cubical grating
830	vertical separation	1304	second cubical grating
850	grating	1306	third cubical grating
852	background	1308	first input beam
854	cells	1310	second input beam
856	horizontal thickness	1312	third input beam
858	vertical thickness	1314	fourth input beam
860	horizontal separation	1316	fifth input beam
862	first vertical separation	1318	sixth input beam
864	second vertical separation	1320	seventh input beam
866	first portions	1322	first output beam
868	first portions	1324	second output beam
868	second portions	1326	third output beam
880	grating	1400	de-multiplexing device
882	cells	1402	first planar grating
884	first portions	1404	second planar grating
886	second portions	1406	third planar grating
888	third portions	1408	input beam
1000	multiplexing system	1410	first diffracted beam
1002	light sources	1412	first intermediate beam
1004	light beam	1414	second diffracted beam

1416	second intermediate beam	1602	center grating block
1418	third diffracted beam	1604	first grating block
1420	output beam	1606	second grating block
		1608a-f	cubical gratings
1500	de-multiplexing device	1610a-f	gratings
1502	first cubical grating	1612a-f	gratings
1504	second cubical grating	1614	input beam
1506	third cubical grating	1616	input source
1508	input beam	1618	first output beam
1510	first diffracted beam	1620	first output target
1512	second diffracted beam	1622	second output beam
1514	first intermediate beam	1624	second output target
1516	third diffracted beam		
1518	fourth diffracted beam	1700	interleaver
1520	second intermediate beam	1702	first input beam
1522	fifth diffracted beam	1704	second input beam
1524	sixth diffracted beam	1706	first input source
1526	output beam	1708	second input source
1600	de-interleaver	1710	output beam
1602	center drating block	1712	output target

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Application deficiencies found during scanning:

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** Scanned copy is best available. Drawing Fig 4D, 4E, 4J, K,
4M, are very dark*